

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011419\
 Data File : VX007045.D
 Acq On : 14 Jan 2019 17:49
 Operator : JC/SP
 Sample : K1128-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 15 00:30:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	599067	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	921302	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	890848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	440200	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	321683	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
35) Dibromofluoromethane	5.50	113	283738	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
50) Toluene-d8	8.71	98	1125113	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
62) 4-Bromofluorobenzene	11.13	95	402134	53.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.82%	

Target Compounds

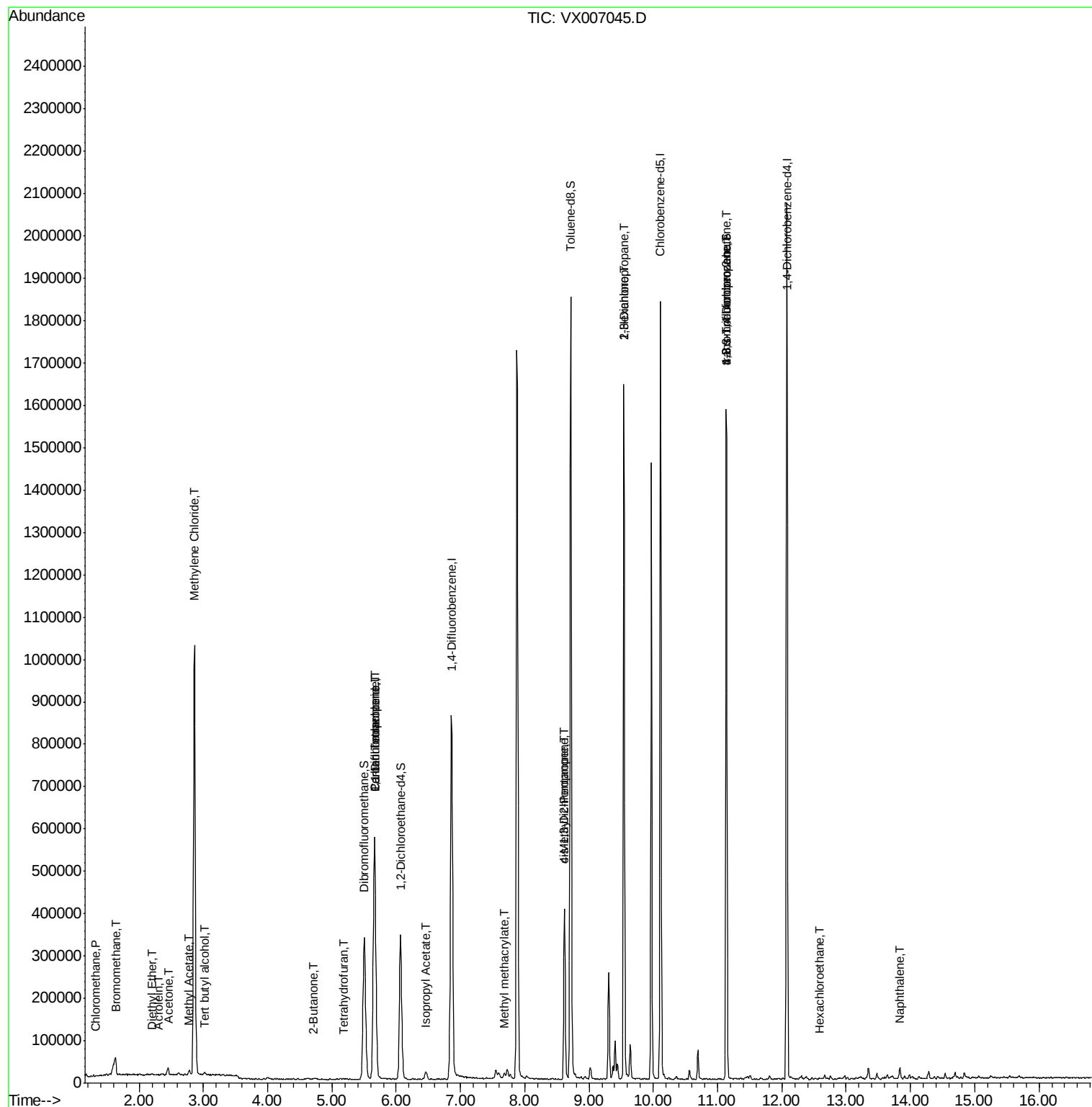
						Qvalue
3) Chloromethane	1.33	50	1161	0.203	ug/l #	85
5) Bromomethane	1.64	94	1655	0.251	ug/l	100
8) Diethyl Ether	2.19	74	1261	0.318	ug/l	89
11) Tert butyl alcohol	3.02	59	4404	2.982	ug/l #	82
13) Acrolein	2.29	56	126	3.280	ug/l #	1
16) Acetone	2.45	43	21114	6.822	ug/l	93
18) Methyl Acetate	2.78	43	14194	1.584	ug/l	92
20) Methylene Chloride	2.86	84	471802	80.489	ug/l	94
25) 2-Butanone	4.71	43	2625	0.593	ug/l	99
29) Tetrahydrofuran	5.18	42	1715	0.596	ug/l #	63
36) 1,1-Dichloropropene	5.67	75	37100	4.632	ug/l #	48
38) Carbon Tetrachloride	5.67	117	53848	6.682	ug/l #	15
43) Isopropyl Acetate	6.46	43	25378	1.874	ug/l	98
48) Methyl methacrylate	7.68	41	13255	1.906	ug/l #	12
49) 1,4-Dioxane	7.77	88	377	Below Cal	#	8
51) 4-Methyl-2-Pentanone	8.62	43	131056	15.055	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	66278	7.363	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	13391	1.300	ug/l #	44
59) 2-Hexanone	9.54	43	182093	27.449	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	195797	21.949	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	195797	65.011	ug/l #	10
90) Hexachloroethane	12.59	117	307	2.974	ug/l #	44
95) Naphthalene	13.83	128	16838	0.531	ug/l #	95

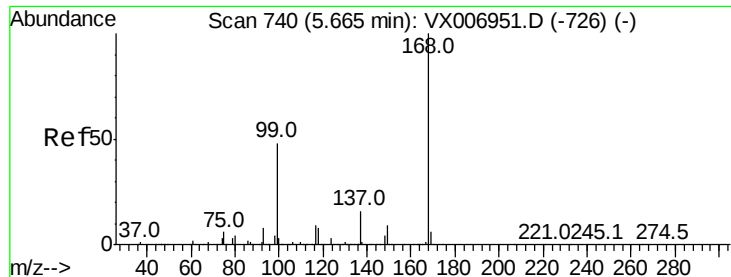
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 14 Jan 2019 17:49
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Sample : K1128-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
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ClientSampleId :

Quant Time: Jan 15 00:30:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

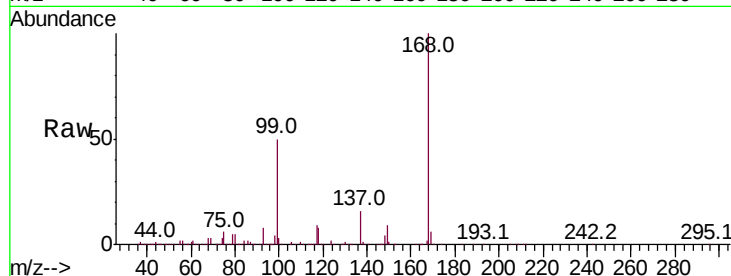
ClientSampleId :

Tot Ion:168 Resp: 599067

Ion Ratio Lower Upper

168 100

99 49.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

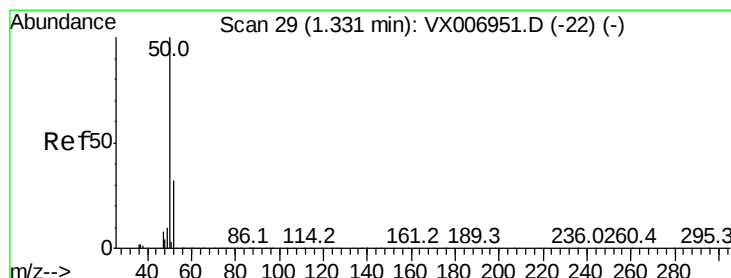
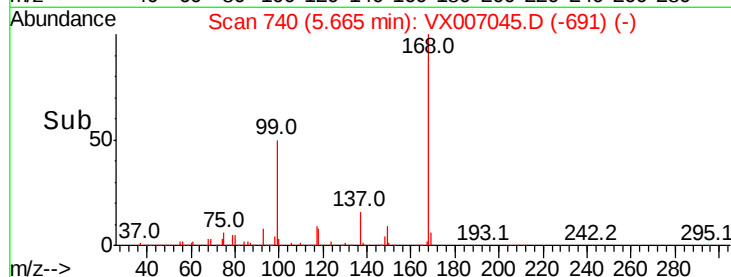
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007045.D

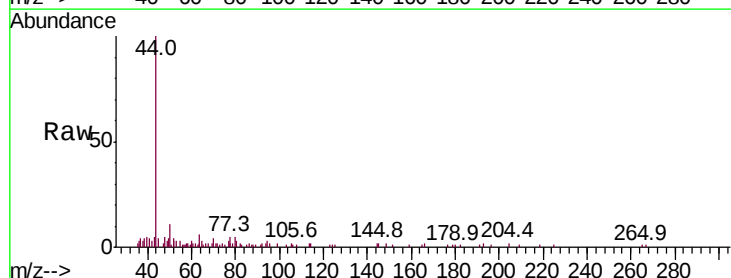
Acq: 14 Jan 2019 17:49

Tgt Ion: 50 Resp: 1161

Ion Ratio Lower Upper

50 100

52 40.1 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

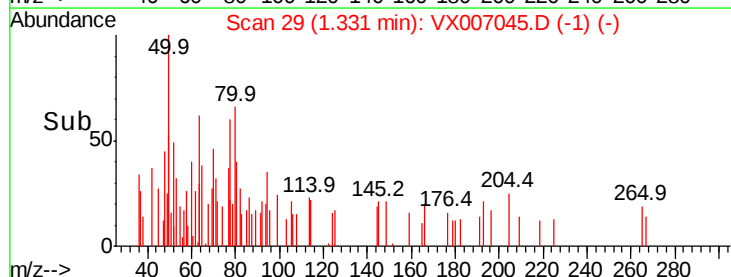
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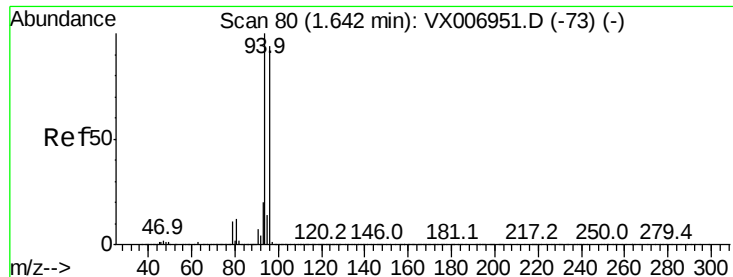
400

200

0

Time-->





#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

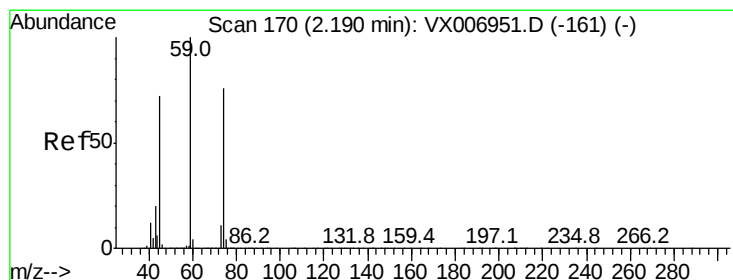
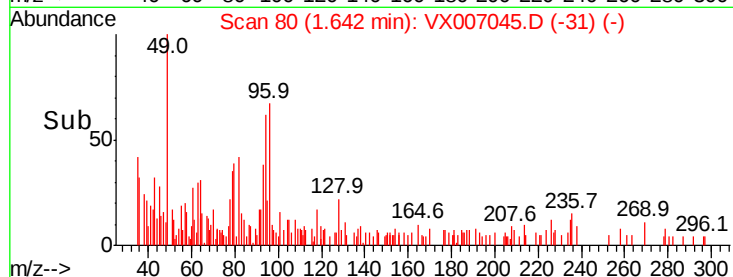
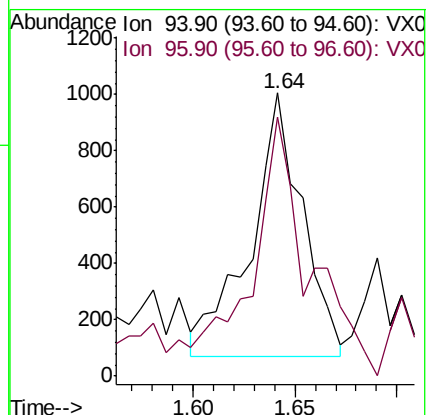
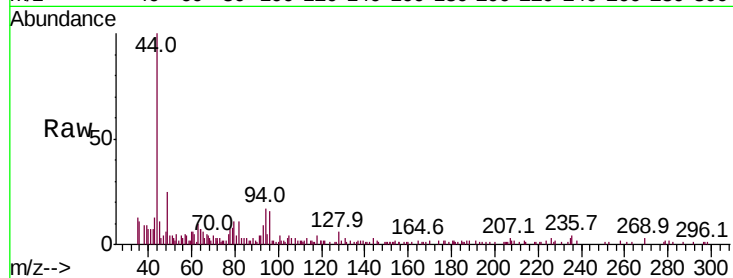
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1655

Ion Ratio Lower Upper

94 100

96 91.9 73.4 110.2



#8

Diethyl Ether

Concen: 0.318 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX007045.D

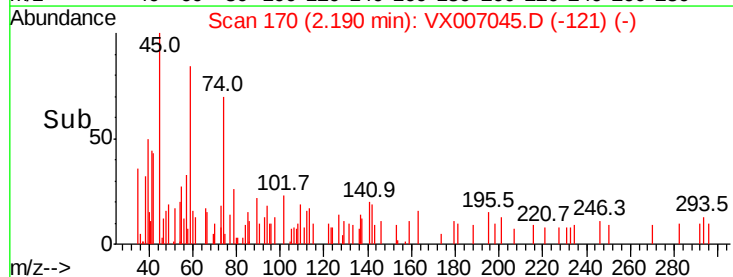
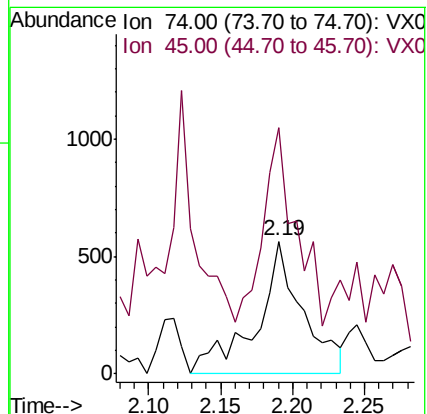
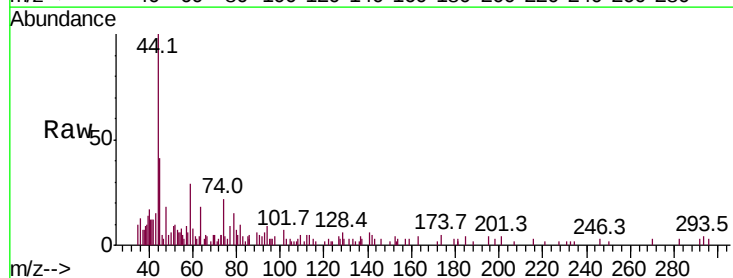
Acq: 14 Jan 2019 17:49

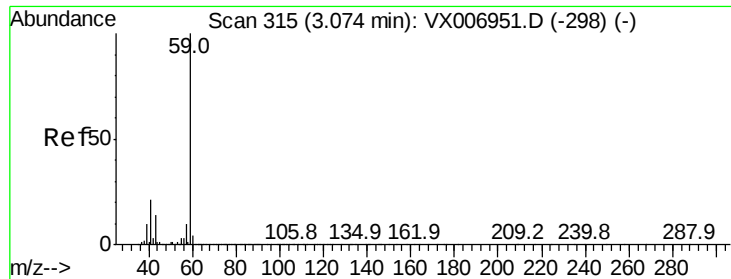
Tgt Ion: 74 Resp: 1261

Ion Ratio Lower Upper

74 100

45 102.9 46.3 138.9



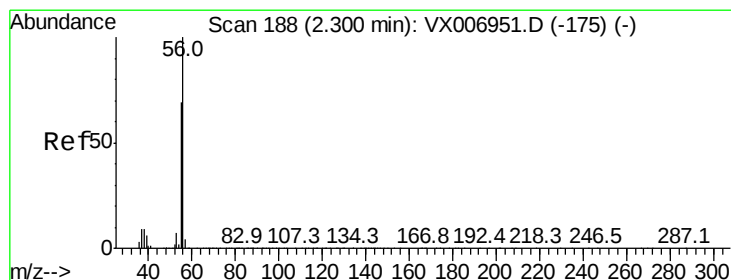
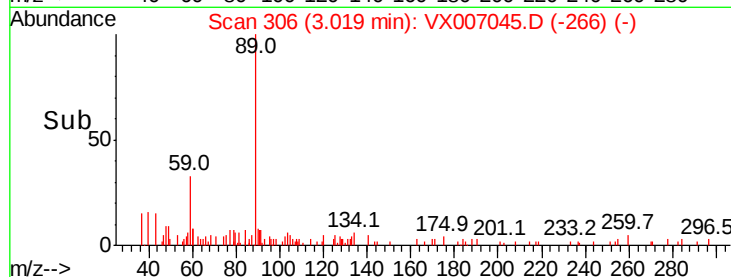
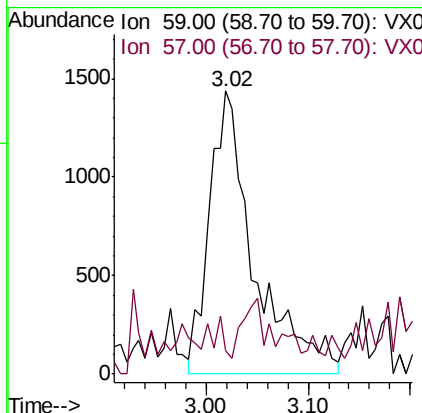
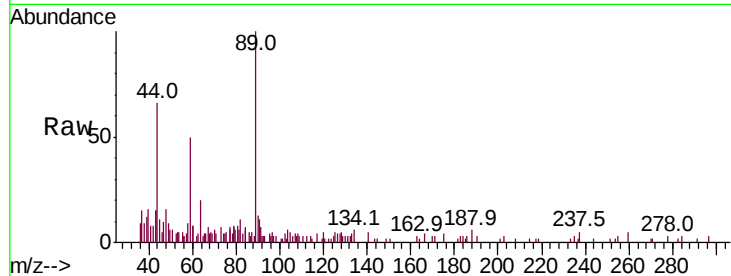


#11

Tert butvl alcohol
 Concen: 2.982 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX007045.D
 Acq: 14 Jan 2019 17:49

Instrument :
 MSVOA_X
 ClientSampleId :

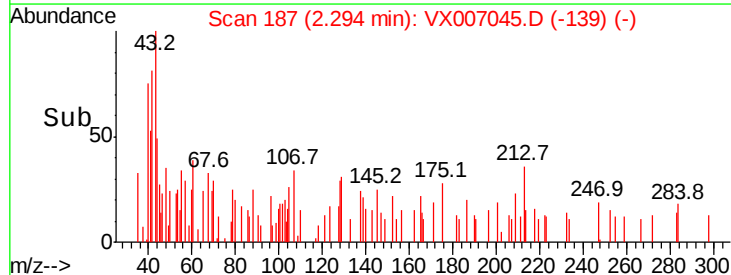
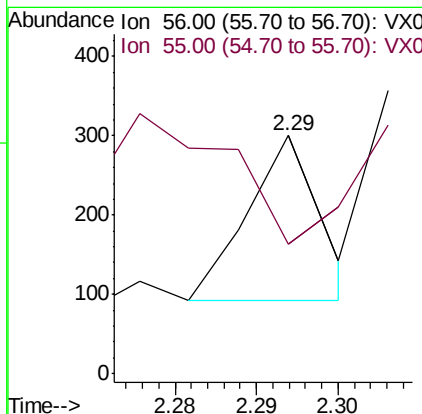
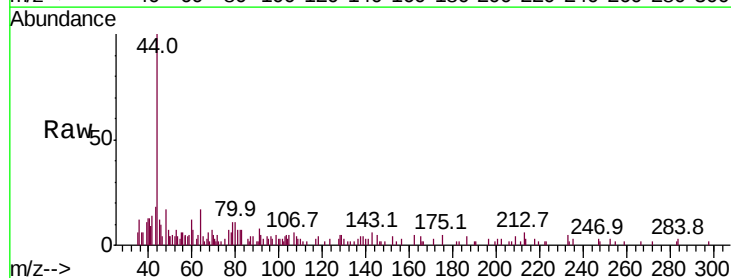
Tot Ion: 59 Resp: 4404
 Ion Ratio Lower Upper
 59 100
 57 3.9 8.5 12.7#

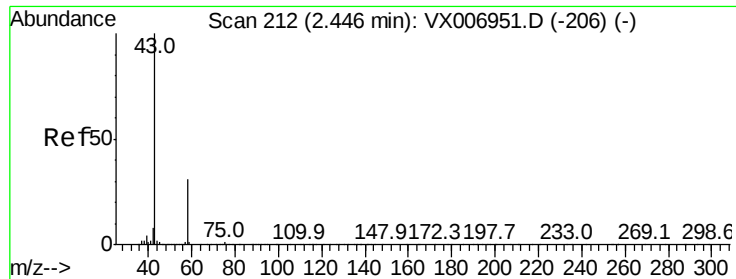


#13

Acrolein
 Concen: 3.280 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.01 min
 Lab File: VX007045.D
 Acq: 14 Jan 2019 17:49

Tgt Ion: 56 Resp: 126
 Ion Ratio Lower Upper
 56 100
 55 182.5 58.2 87.4#

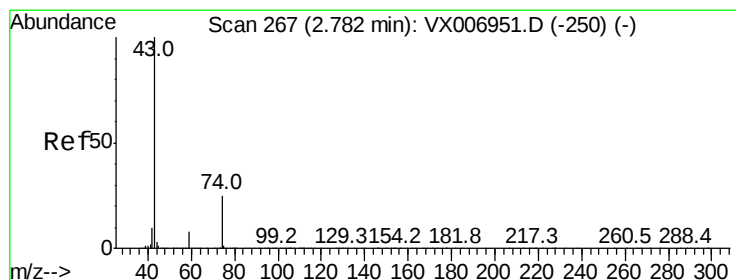
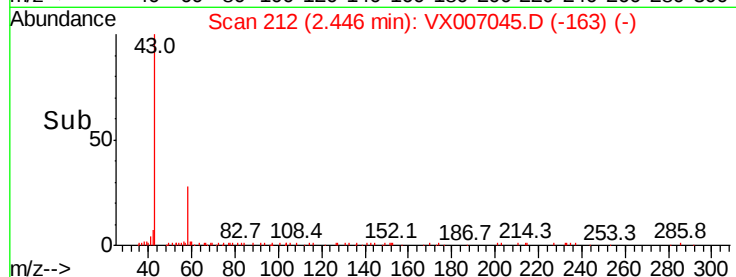
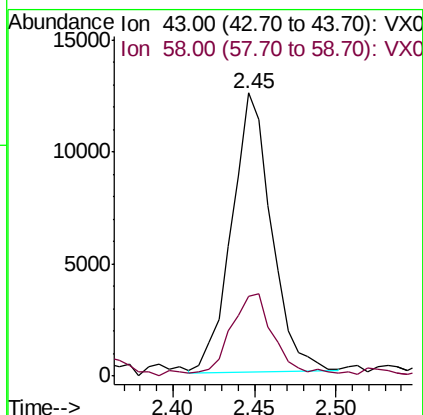
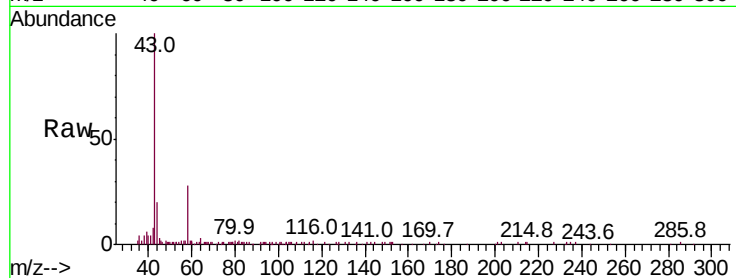




#16
Acetone
Concen: 6.822 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007045.D
Acq: 14 Jan 2019 17:49

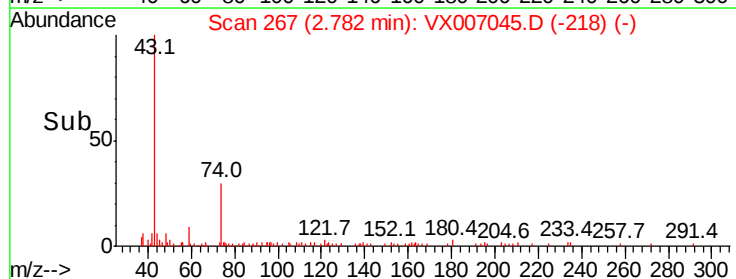
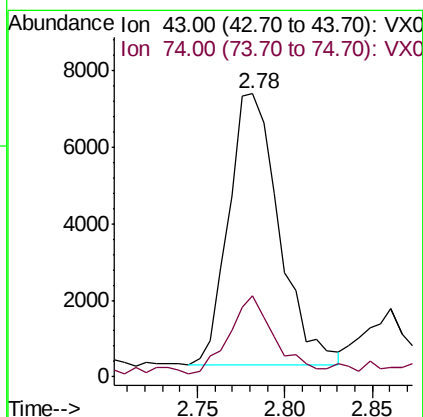
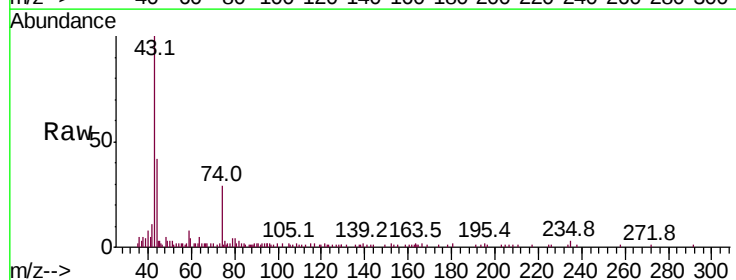
Instrument :
MSVOA_X
ClientSampleId :

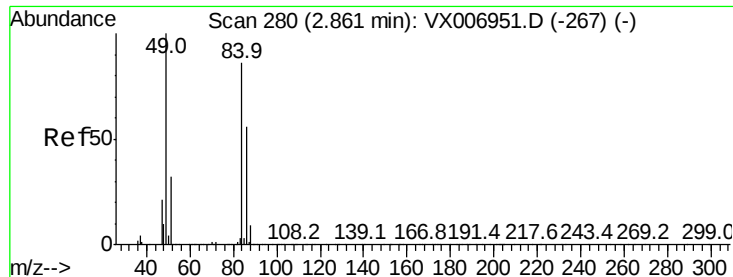
Tot Ion: 43 Resp: 21114
Ion Ratio Lower Upper
43 100
58 27.4 25.0 37.6



#18
Methyl Acetate
Concen: 1.584 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007045.D
Acq: 14 Jan 2019 17:49

Tgt Ion: 43 Resp: 14194
Ion Ratio Lower Upper
43 100
74 27.4 18.6 28.0

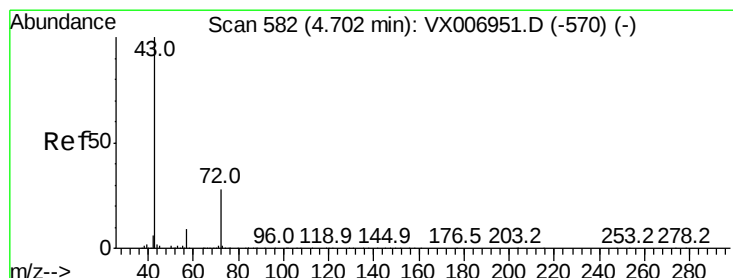
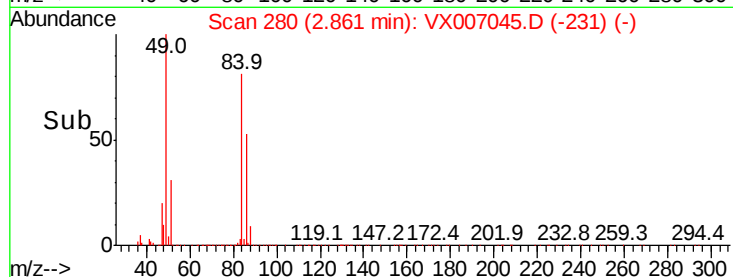
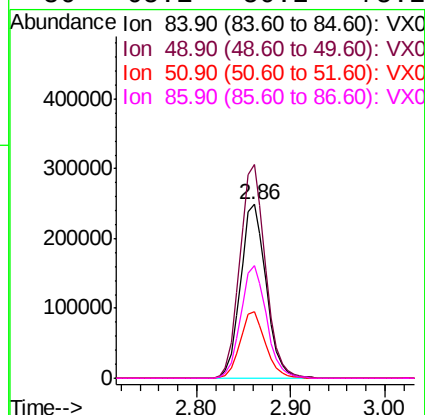
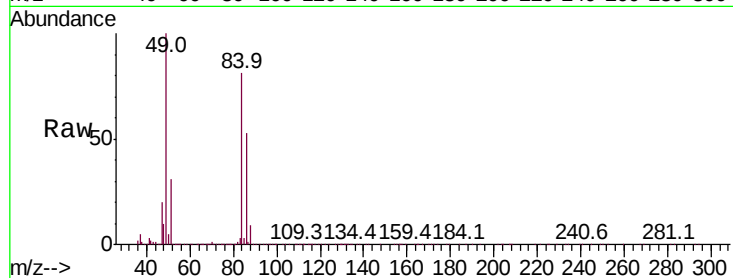




#20
Methvlene Chloride
Concen: 80.489 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007045.D
Acq: 14 Jan 2019 17:49

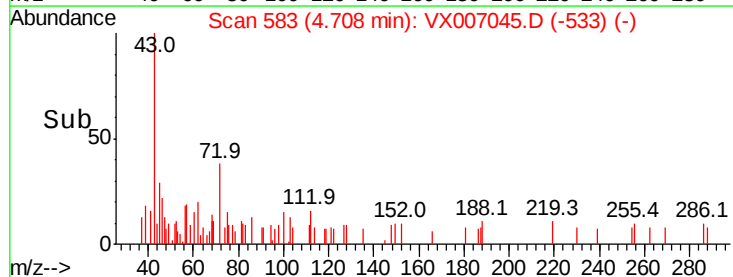
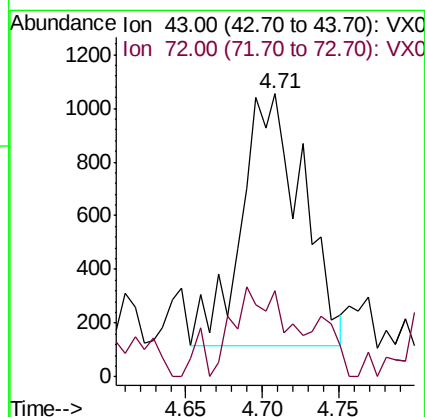
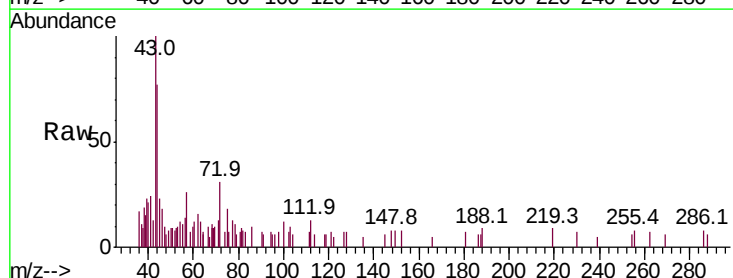
Instrument :
MSVOA_X
ClientSampleId :

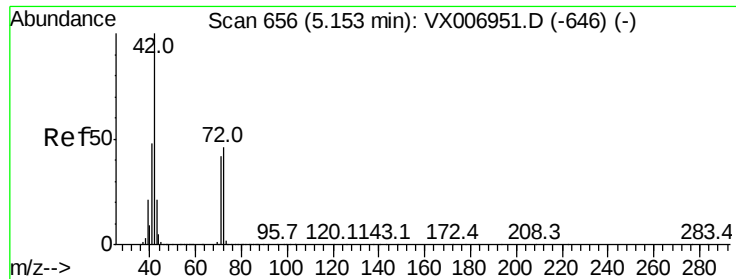
Tot Ion:	84	Resp:	471802
Ion	Ratio	Lower	Upper
84	100		
49	122.7	91.8	137.6
51	37.9	28.5	42.7
86	65.1	50.2	75.2



#25
2-Butanone
Concen: 0.593 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007045.D
Acq: 14 Jan 2019 17:49

Tgt Ion:	43	Resp:	2625
Ion	Ratio	Lower	Upper
43	100		
72	27.3	22.4	33.6





#29

Tetrahydrofuran

Concen: 0.596 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

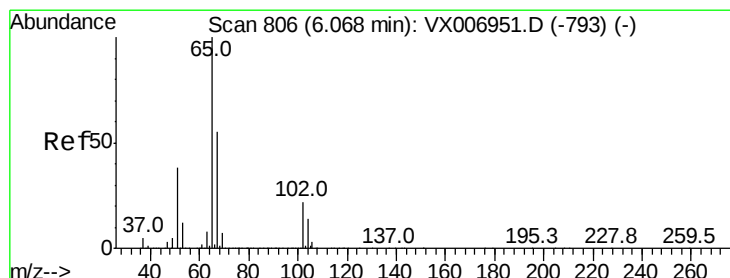
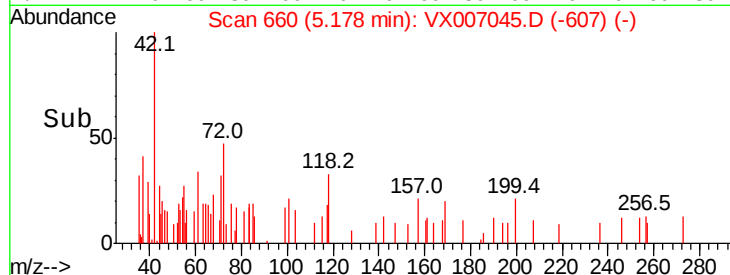
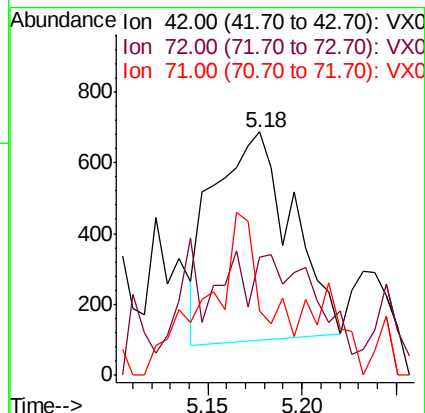
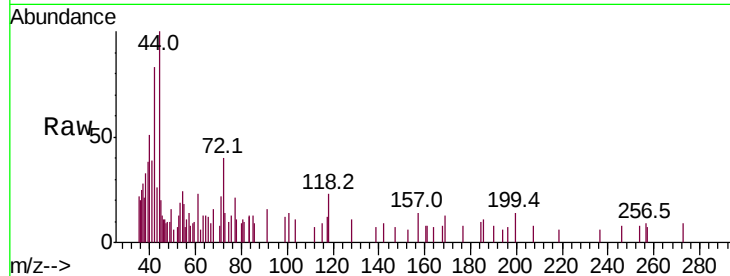
Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 42 Resp: 1715

Ion	Ratio	Lower	Upper
42	100		
72	5.0	38.9	58.3#
71	50.7	36.2	54.4



#33

1,2-Dichloroethane-d4

Concen: 51.381 ug/l

RT: 6.07 min Scan# 806

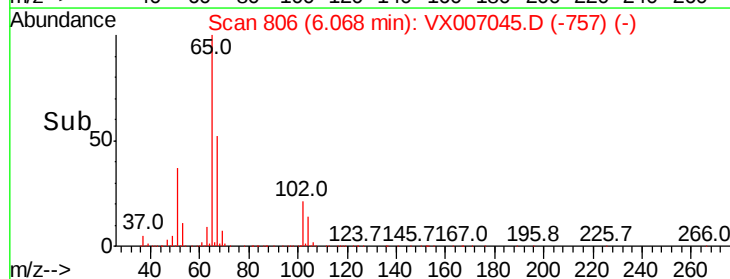
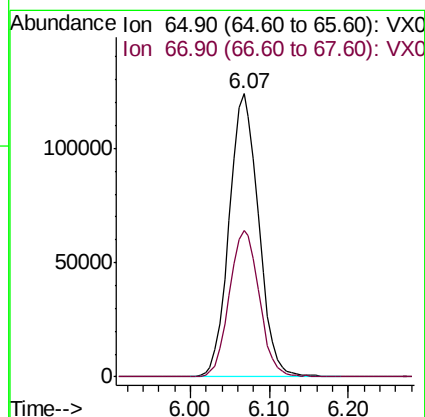
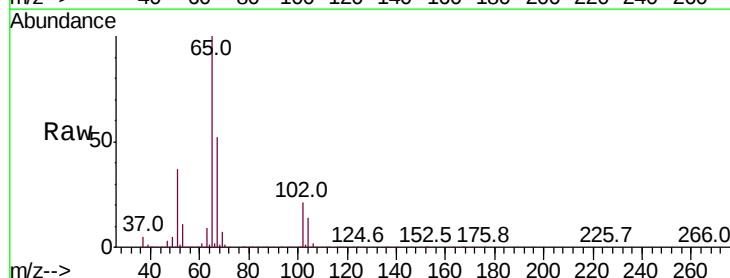
Delta R.T. -0.00 min

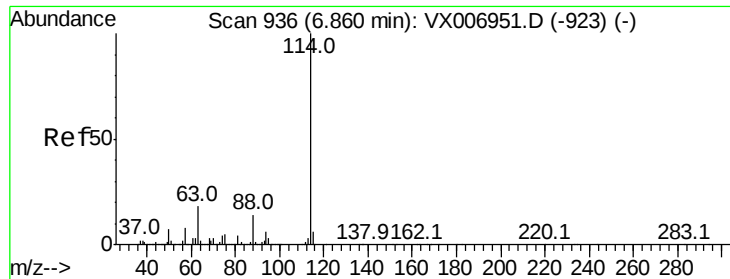
Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Tgt Ion: 65 Resp: 321683

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	105.0

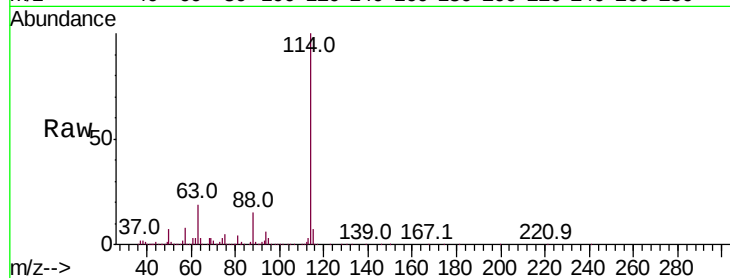




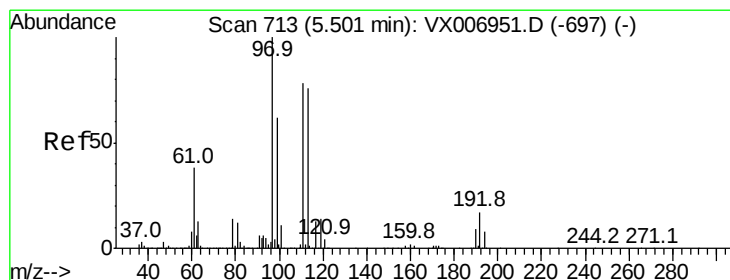
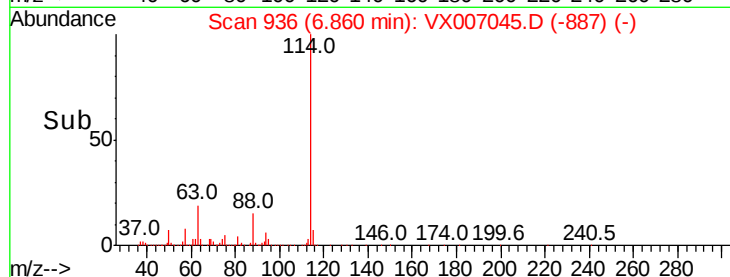
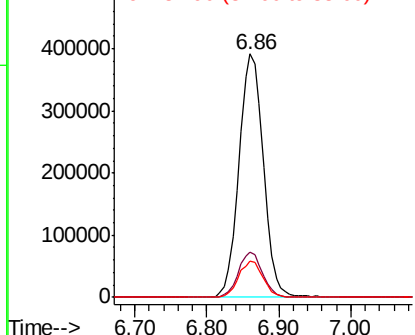
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007045.D
 Acq: 14 Jan 2019 17:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	34.8
88	14.9	0.0	28.8

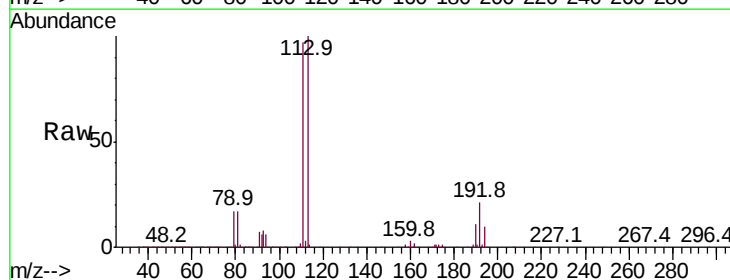


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

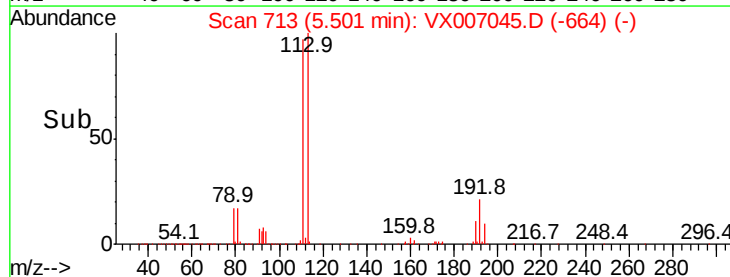
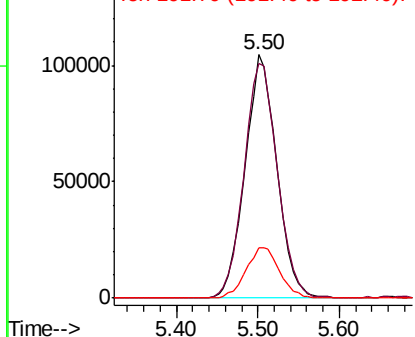


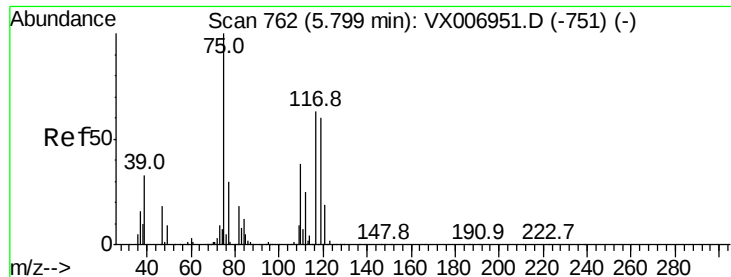
#35
 Dibromofluoromethane
 Concen: 48.091 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX007045.D
 Acq: 14 Jan 2019 17:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.6	122.4
192	22.0	16.7	25.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

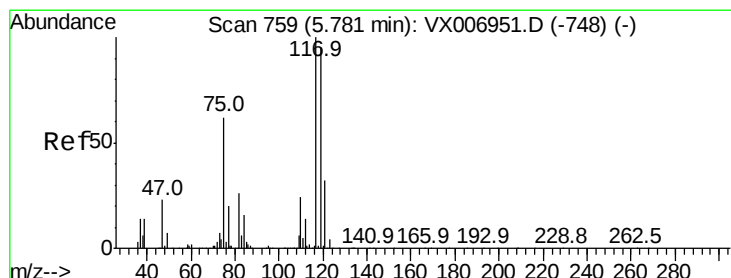
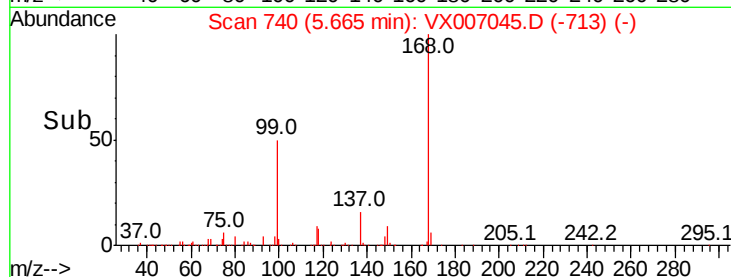
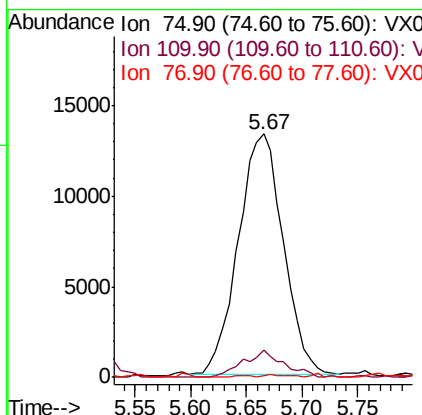
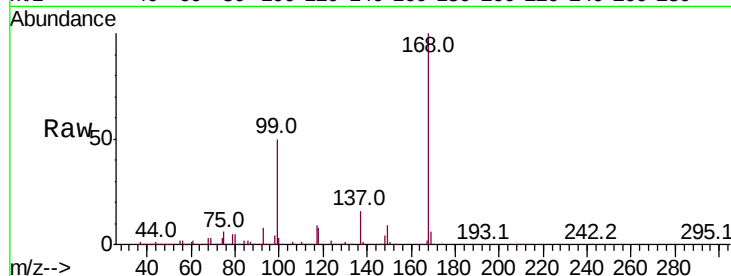




#36
 1,1-Dichloropropene
 Concen: 4.632 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007045.D
 Acq: 14 Jan 2019 17:49

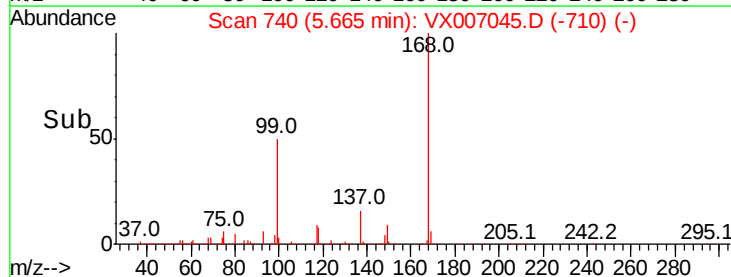
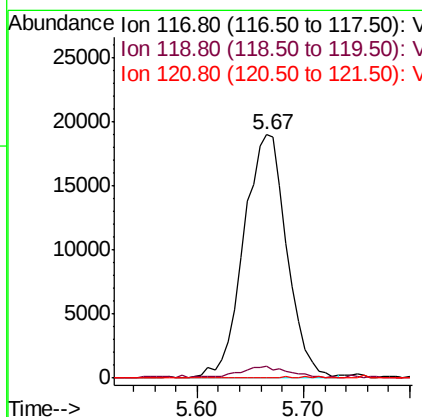
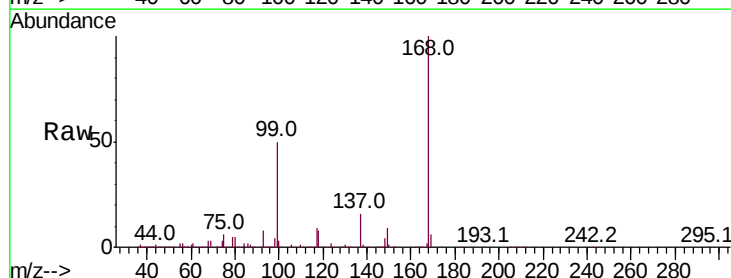
Instrument :
 MSVOA_X
 ClientSampleId :

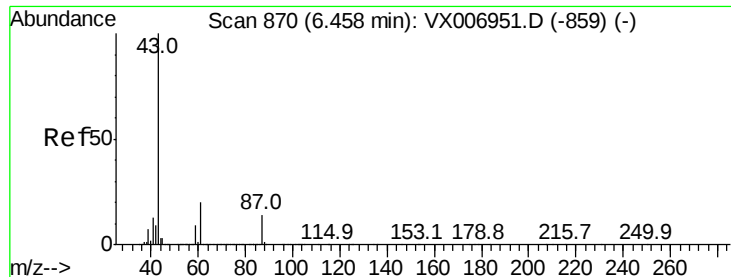
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	20.2	60.5#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.682 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007045.D
 Acq: 14 Jan 2019 17:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	79.4	119.2#
121	0.0	24.0	36.0#





#43

Isopropyl Acetate

Concen: 1.874 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

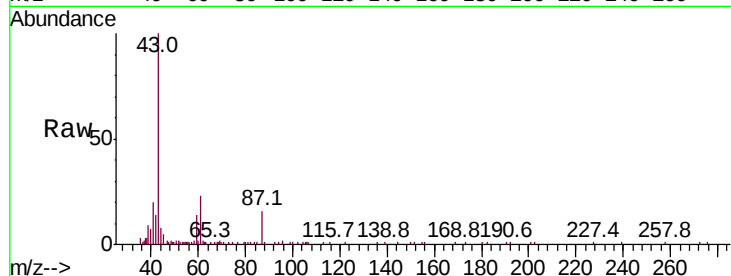
Tot Ion: 43 Resp: 25378

Ion Ratio Lower Upper

43 100

61 22.3 16.8 25.2

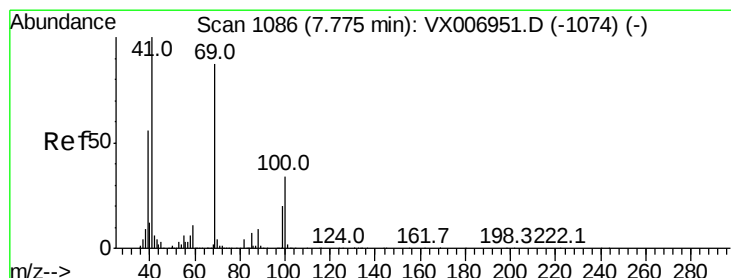
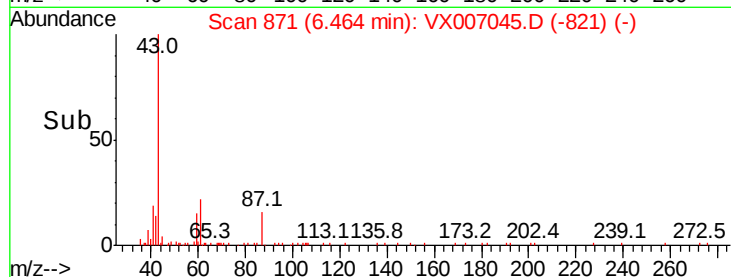
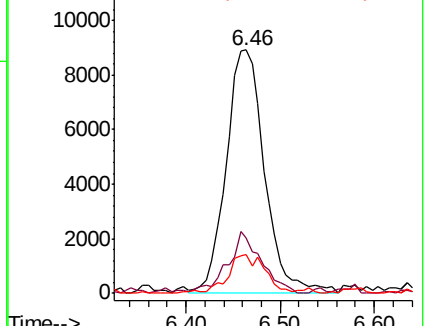
87 15.3 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.906 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

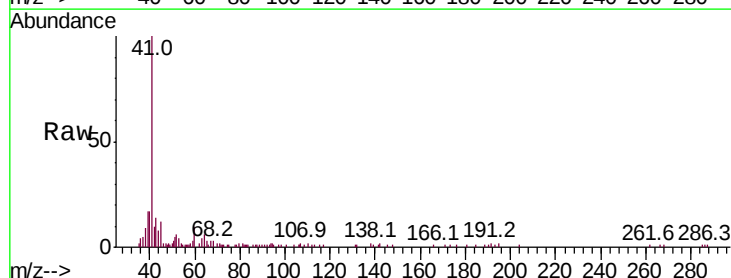
Tgt Ion: 41 Resp: 13255

Ion Ratio Lower Upper

41 100

69 0.5 72.4 108.6#

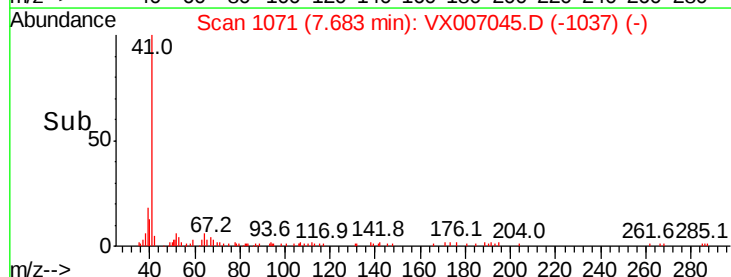
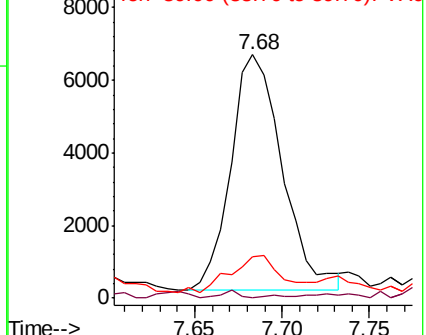
39 0.0 45.8 68.8#

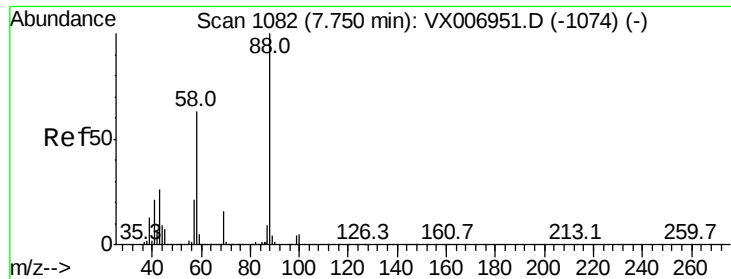


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

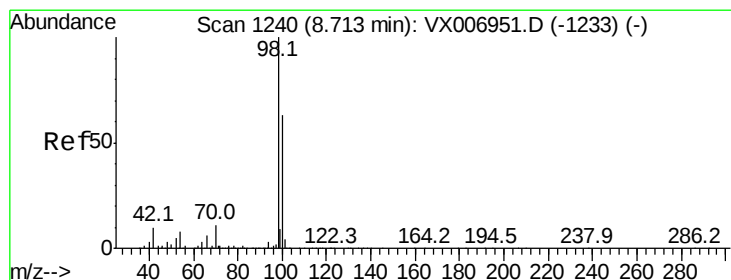
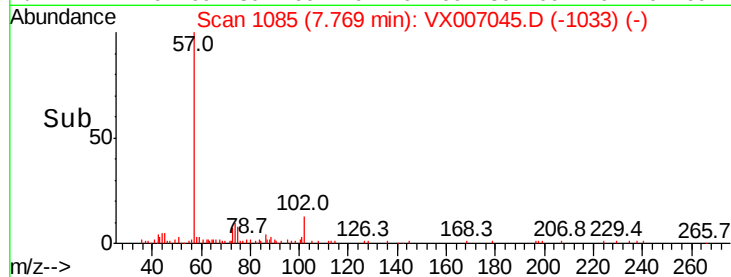
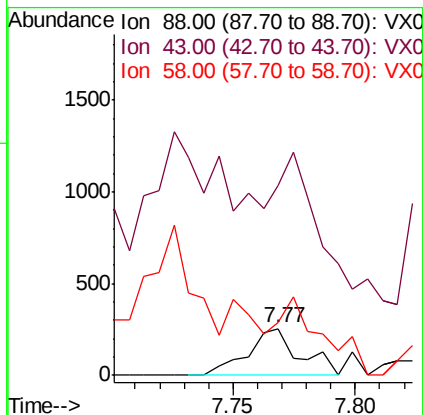
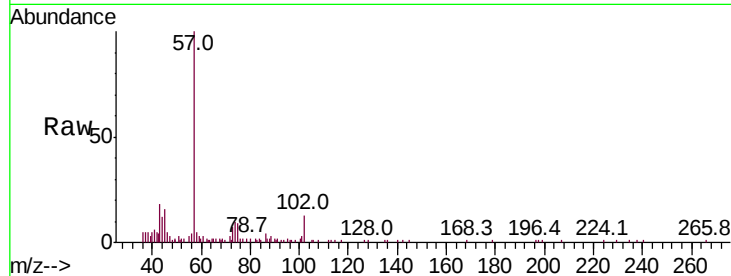
Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 377

Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	148.8	51.0	76.4#



#50

Toluene-d8

Concen: 52.099 ug/l

RT: 8.71 min Scan# 1240

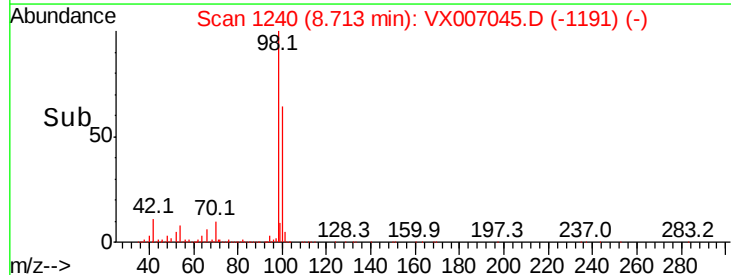
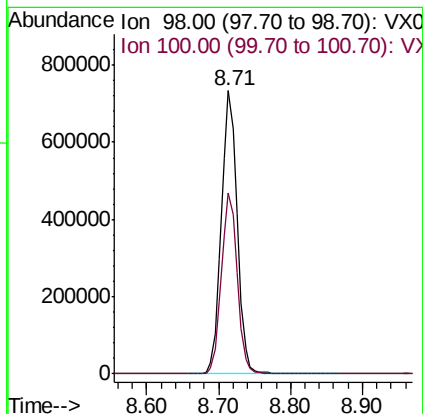
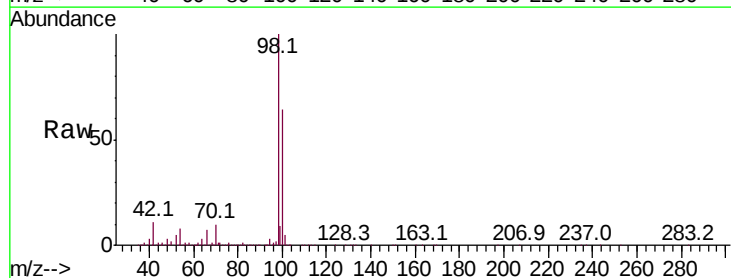
Delta R.T. -0.00 min

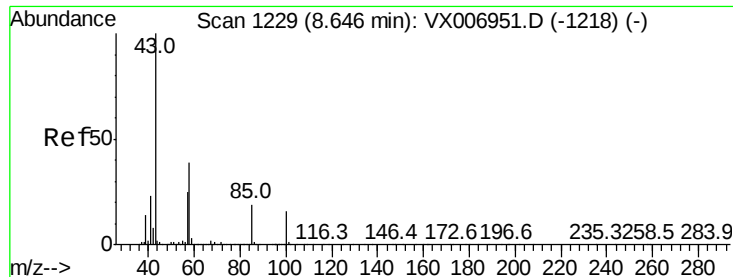
Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Tgt Ion: 98 Resp: 1125113

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 15.055 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

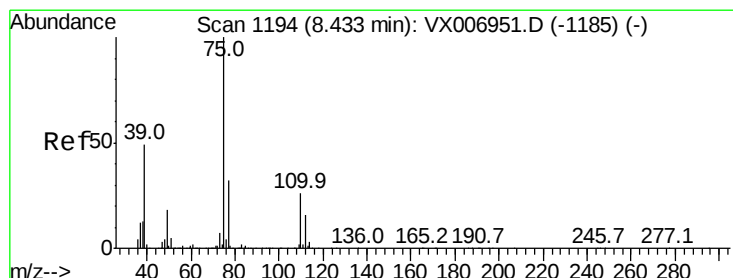
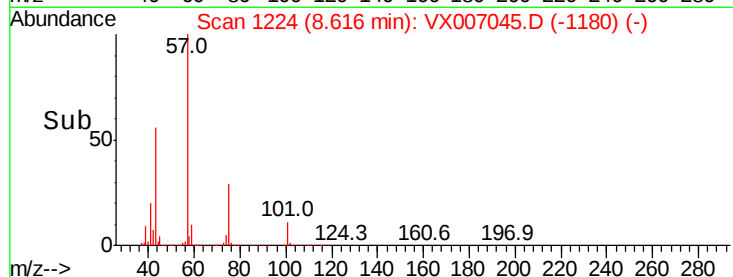
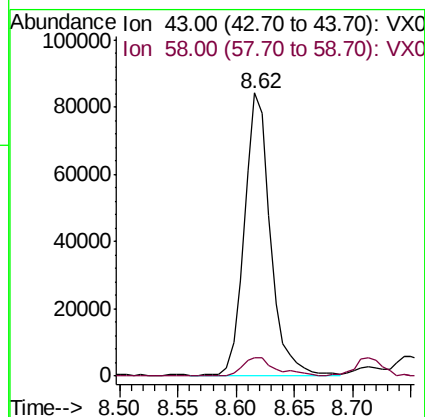
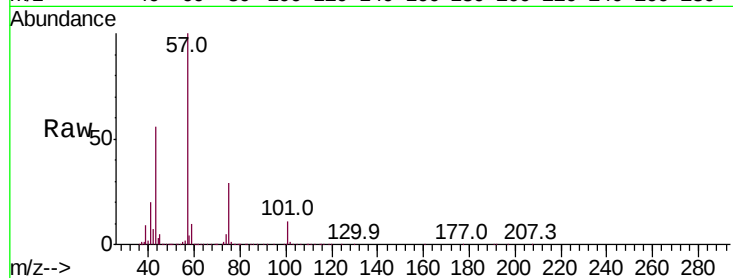
Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 131056

Ion	Ratio	Lower	Upper
43	100		
58	8.2	31.8	47.6#



#54

cis-1,3-Dichloropropene

Concen: 7.363 ug/l

RT: 8.62 min Scan# 1224

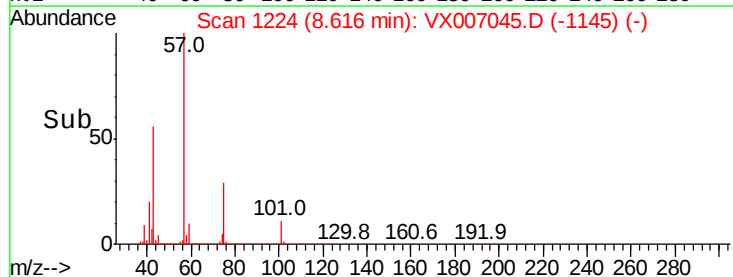
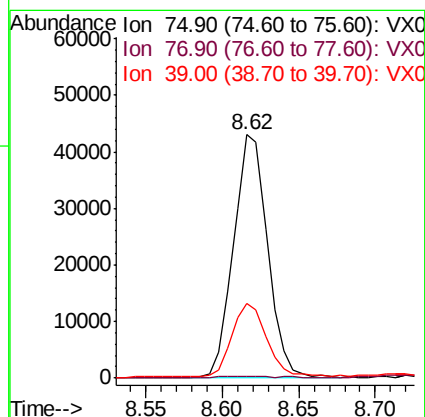
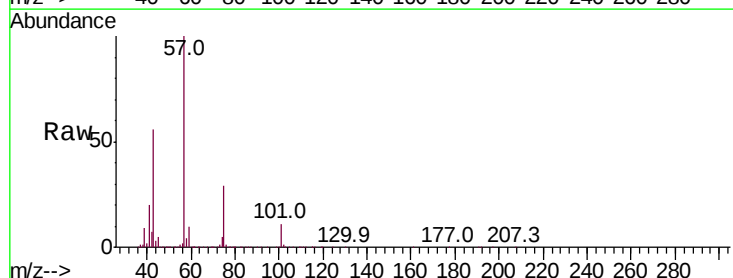
Delta R.T. 0.18 min

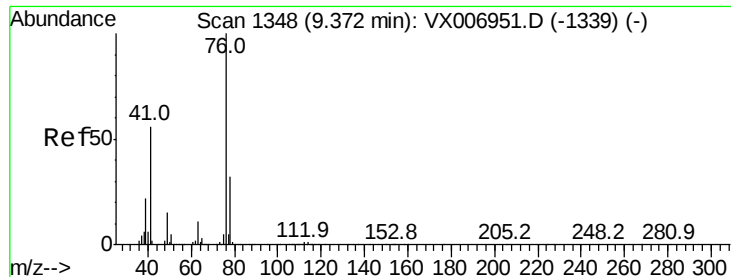
Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Tgt Ion: 75 Resp: 66278

Ion	Ratio	Lower	Upper
75	100		
77	0.8	26.2	39.2#
39	29.9	36.7	55.1#





#57

1,3-Dichloropropane

Concen: 1.300 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

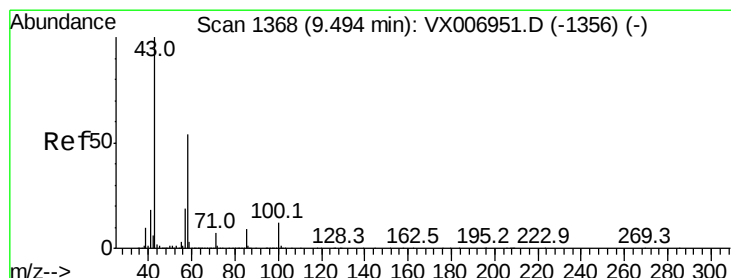
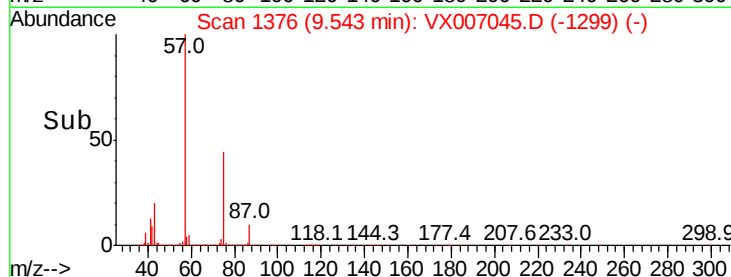
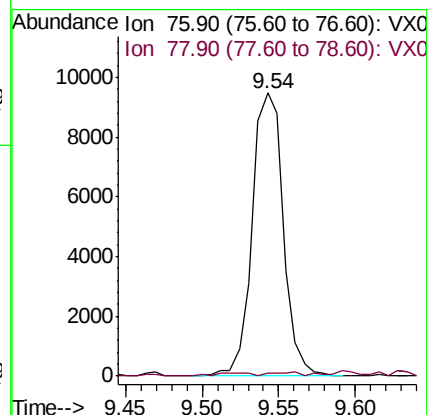
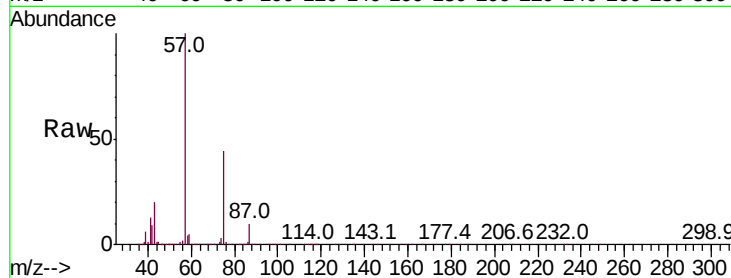
ClientSampled :

Tot Ion: 76 Resp: 13391

Ion Ratio Lower Upper

76 100

78 1.3 26.0 39.0#



#59

2-Hexanone

Concen: 27.449 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007045.D

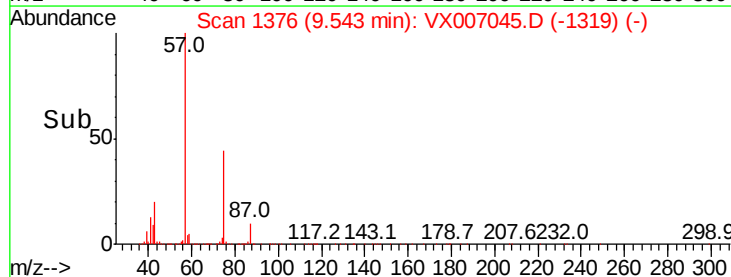
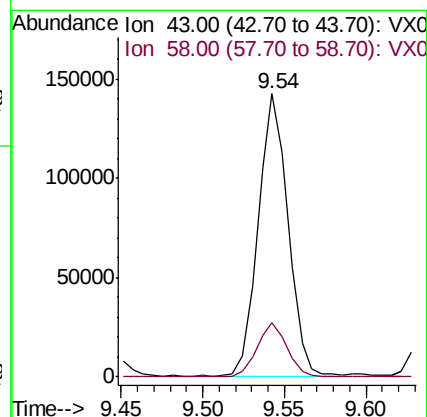
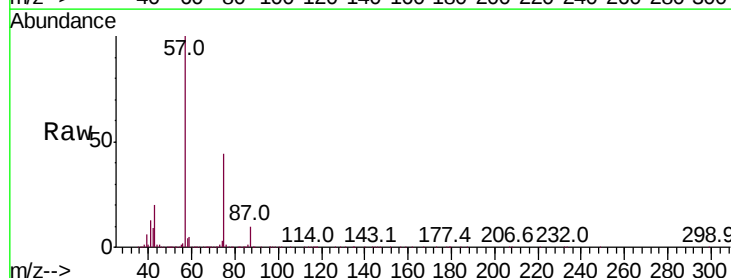
Acq: 14 Jan 2019 17:49

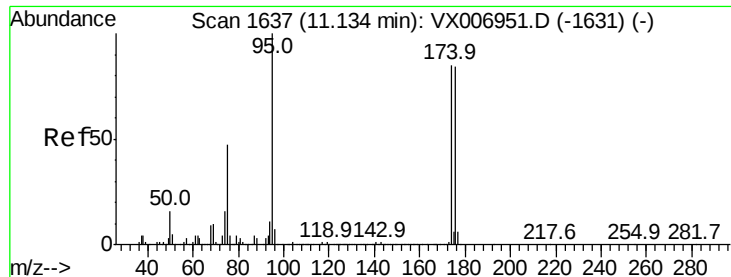
Tgt Ion: 43 Resp: 182093

Ion Ratio Lower Upper

43 100

58 19.2 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 53.413 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

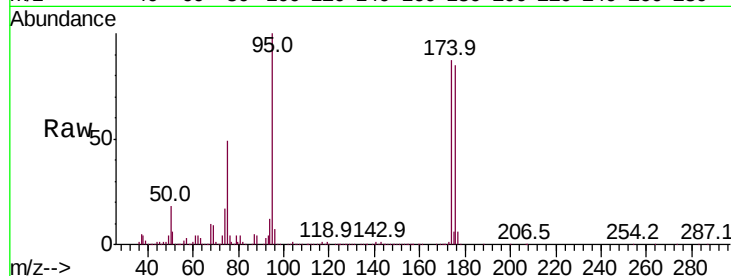
Tot Ion: 95 Resp: 402134

Ion Ratio Lower Upper

95 100

174 94.1 0.0 182.2

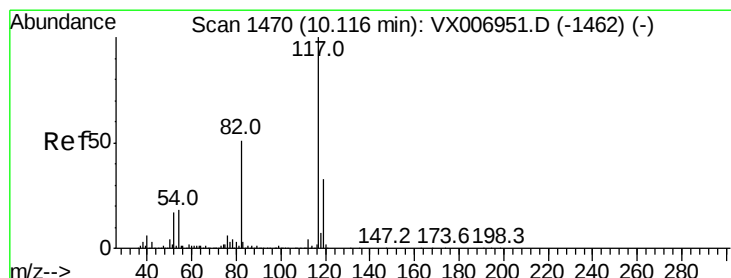
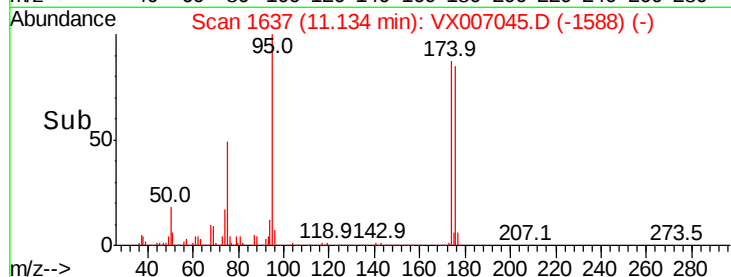
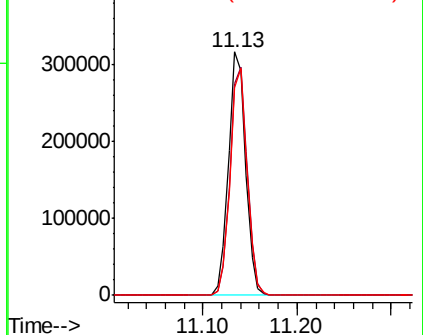
176 92.2 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

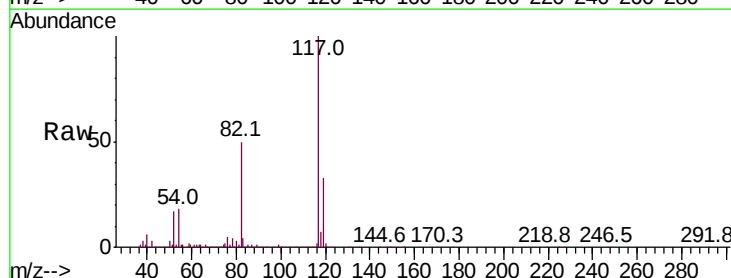
Tgt Ion: 117 Resp: 890848

Ion Ratio Lower Upper

117 100

82 50.2 41.0 61.6

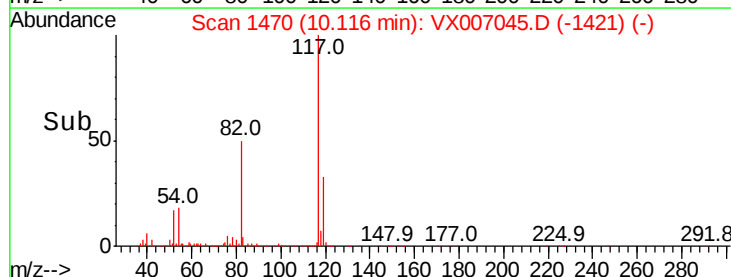
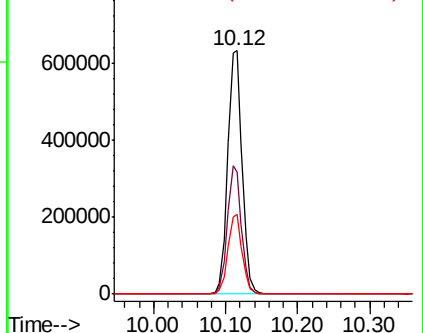
119 32.9 25.4 38.0

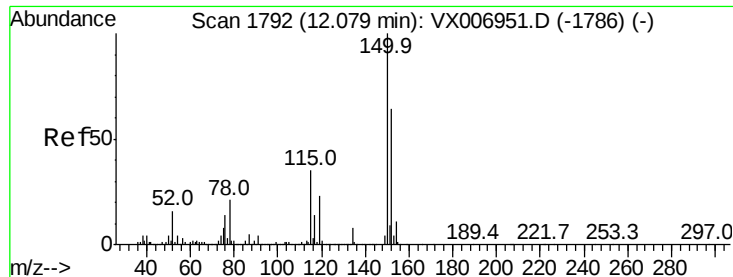


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

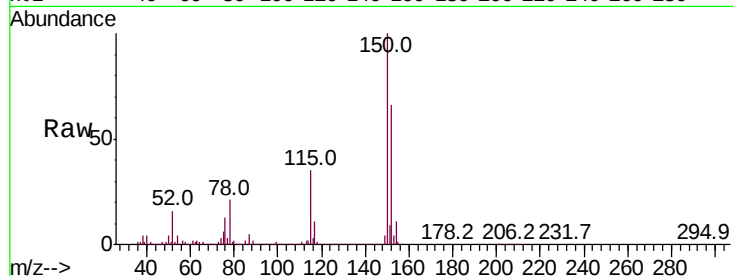
Tot Ion:152 Resp: 440200

Ion Ratio Lower Upper

152 100

115 54.2 39.1 117.2

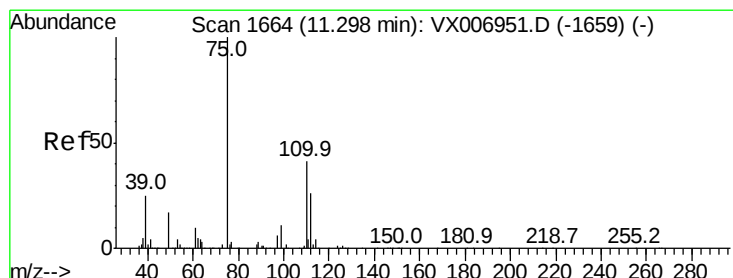
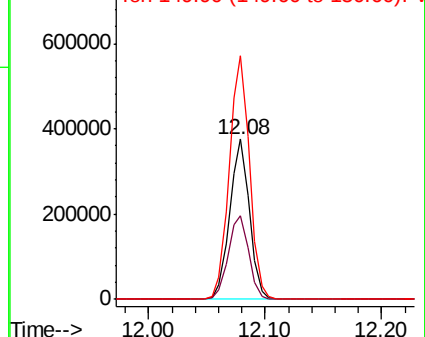
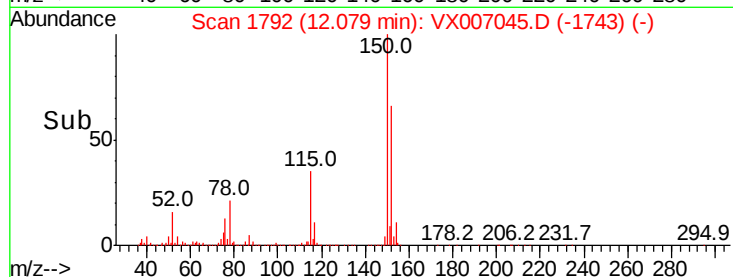
150 155.4 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.949 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007045.D

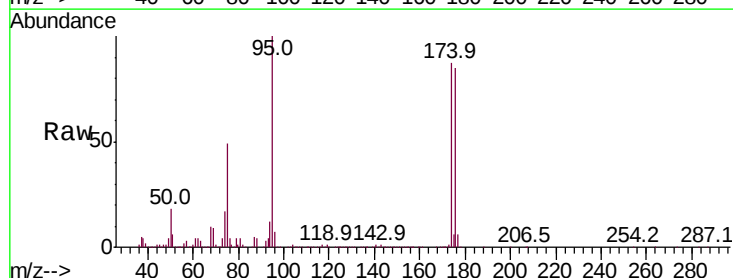
Acq: 14 Jan 2019 17:49

Tgt Ion: 75 Resp: 195797

Ion Ratio Lower Upper

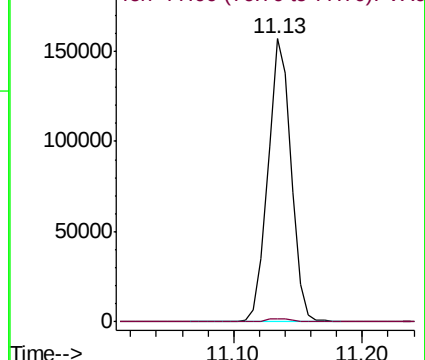
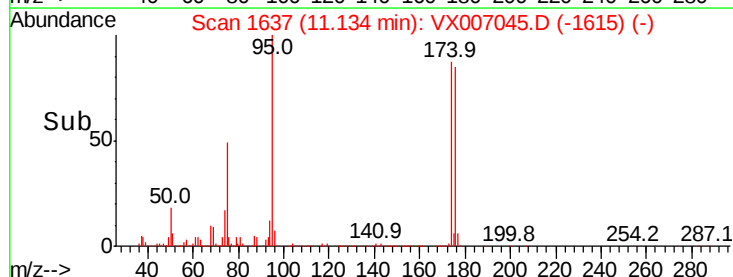
75 100

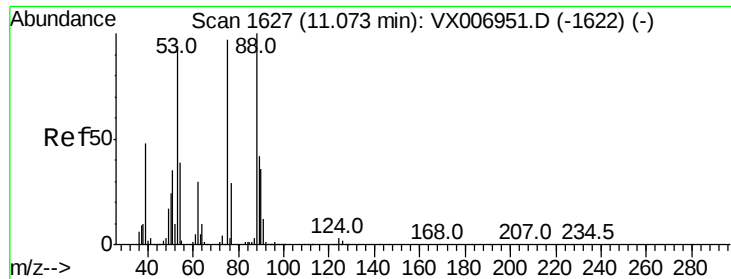
77 1.4 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.011 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

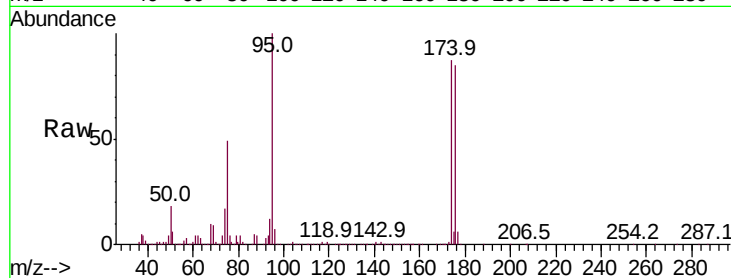
Tot Ion: 75 Resp: 195797

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

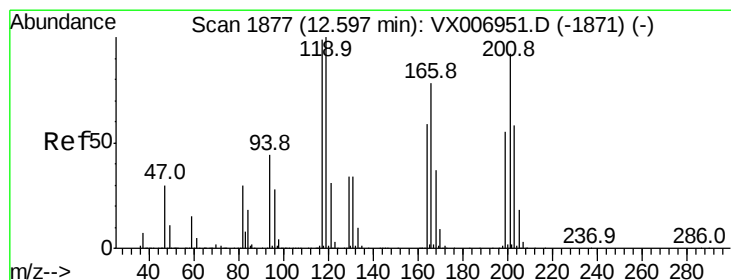
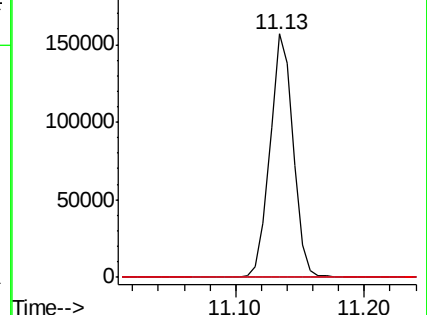
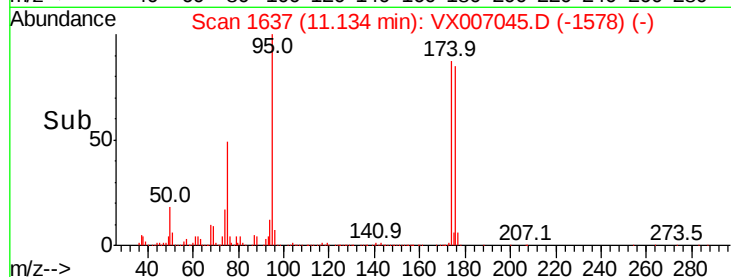
89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.974 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX007045.D

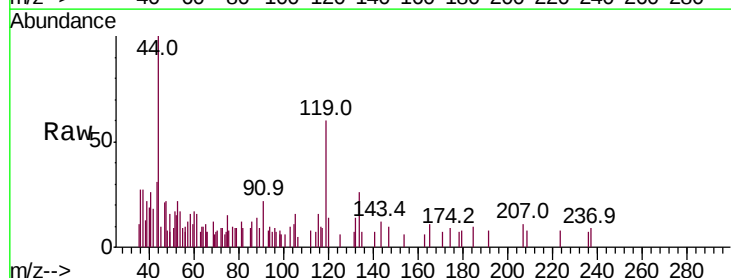
Acq: 14 Jan 2019 17:49

Tgt Ion: 117 Resp: 307

Ion Ratio Lower Upper

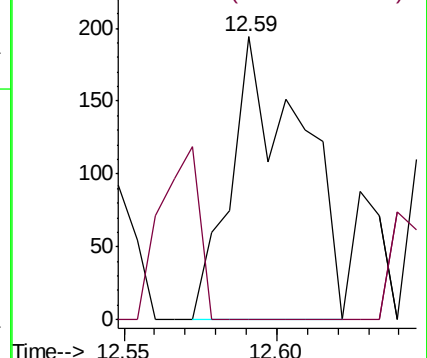
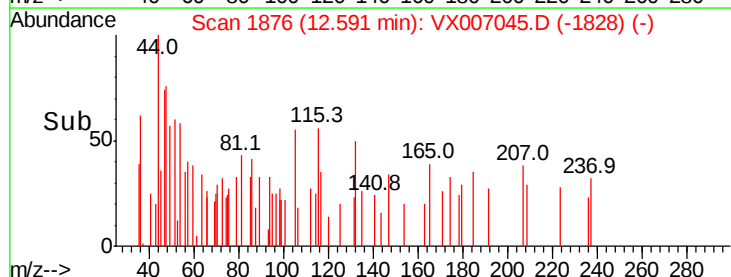
117 100

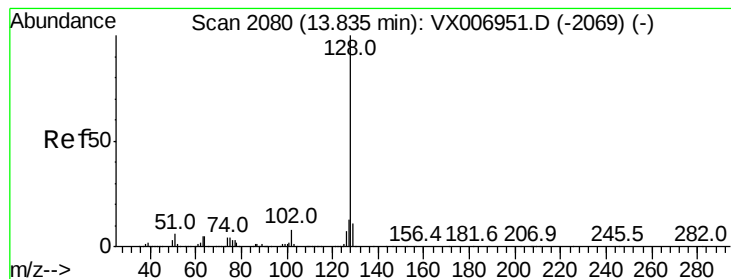
201 34.2 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 0.531 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007045.D

Acq: 14 Jan 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:128 Resp: 16838

Ion Ratio Lower Upper

128 100

127 15.4 10.1 15.1#

129 12.0 8.6 13.0

